2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Northumberland

STREAM NAME: Indian Creek

HYDROLOGIC UNIT: 02080102

SEGMENT ID.: VAP-C01E_IND03A02 **TMDL MAP ID:** VAP-C01E-23

SEGMENT SIZE: 0.82 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Pitmans Cove

RIVER MILE: 2.00

LATITUDE: 37.69490 **LONGTITUDE:** -76.34880

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE: 37.65400 **LONGTITUDE:** -76.33500

From Pitmans Cove downstream to the mouth at the Chesapeake Bay.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Fish Tissue - Arsenic	Stratification
	Unknown

SUMMARY:

Indian Creek was assessed not supporting of the Aquatic Life use based on widespread bottom water dissolved oxygen violations.

DO 2/4 at 7-IND000.00;
DO 4/31 at 7-IND000.50;
DO 2/4 at 7-IND0001.42;
DO 2/4 at 7-IND001.23;
DO 2/4 at 7-IND001.80.

In addition, sediment sampling at 7-IND001.80 indicated mercury over the NOAA ER-M screening value.

The segment was assessed threatened of the Fish Consumption Use based on exceedances of the screening value for arsenic in fish tissue collected at 7-IND001.80 in 1998.

Bottom water DO violations during special study 8/22/1996.

The source of the mercury and arsenic is considered unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Northumberland

STREAM NAME: Cockrell Creek

HYDROLOGIC UNIT: 02080102

SEGMENT ID.: VAP-C01E_COC01A98 **TMDL MAP ID:** VAP-C01E-08

SEGMENT SIZE: 1.09 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL Schedule:** - 2004

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE: 3.49

LATITUDE: 37.85920 **LONGTITUDE:** -76.29440

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE: 0.12

LATITUDE: 37.31830 **LONGTITUDE:** -76.28610

Described in VDH Notice and Description of Shellfish Condemnation Number 002A and B.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened, Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Chlorophyll_a	Unknown

SUMMARY:

VDH-DSS Shellfish Condemnation 2A, B, 9/14/1993.
Chlorophyll A 5/23 at 7-COC001.61

Source is unknown. Condemnation B consists of an area around a VPDES point source outfall which is prohibited - use removed.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Middlesex

STREAM NAME: Dragon Run

HYDROLOGIC UNIT: 02080102

SEGMENT ID.: VAP-C02E_DRN01A02 **TMDL MAP ID:** VAP-C02E-01

SEGMENT SIZE: 0.13 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Tidal limit

RIVER MILE: 4.60

LATITUDE: 37.58610 **LONGTITUDE:** -76.62360

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth at Piankatank River

RIVER MILE: 0.00

LATITUDE: 37.56670 **LONGTITUDE:** -76.57510

From the tidal limit downstream to the mouth at the Piankatank River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Fish Tissue - Mercury	Natural Conditions
	Unknown

SUMMARY:

The segment was assessed partially supporting of the Aquatic Life Use based on a dissolved oxygen standard violation rate of f3/24 at the Route 17 bridge (7-DRN003.40).

Mercury in fish tissue in 1998 and 2000

The dissolved oxygen impairment is suspected to be caused by natural conditions from upstream swamps.

Unknown source of mercury

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Middlesex

STREAM NAME: Piankatank River - Ferry Creek

HYDROLOGIC UNIT: 02080102

SEGMENT ID.: VAP-C03E_FER01A98 **TMDL MAP ID:** VAP-C03E-04

SEGMENT SIZE: 0.09 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE: 1.31

LATITUDE: 37.51110 **LONGTITUDE:** -76.47920

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE: 0.12

LATITUDE: 37.51610 **LONGTITUDE:** -76.46170

Described in VDH Notice and Description of Shellfish Condemnation Number 171.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Dissolved Oxygen	Unknown
	Natural Sources

SUMMARY:

VDH-DSS Shellfish Condemnation 171, 6/9/1998.

DO 31/146 at citizen monitoring station 7FER-129B-ALL. Station located in a marshy area on north bank of creek approximately 3/4 mile upstream of mouth.

The source of pathogens is unknown.

Natural sources are the suspected cause of the dissolved oxygen violations.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Middlesex

STREAM NAME: Jackson Creek

HYDROLOGIC UNIT: 02080102

SEGMENT ID.: VAP-C03E_JCK01C98 **TMDL MAP ID:** VAP-C03E-10

SEGMENT SIZE: 0.26 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE: 1.21

LATITUDE: 37.54830 **LONGTITUDE:** -76.34440

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE: 0.46

LATITUDE: 37.54530 **LONGTITUDE:** -76.32440

Described in VDH Notice and Description of Shellfish Condemnation Number 84C.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
VDH Shellfish Restriction	Unknown

SUMMARY:

VDH-DSS Shellfish Condemnation 84C, 11/1/1996. Seasonal condemnation.

Source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Mathews

STREAM NAME: Milford Haven

HYDROLOGIC UNIT: 02080102

SEGMENT ID.: VAP-C04E_MLF03A00 **TMDL MAP ID:** VAP-C04E-21

SEGMENT SIZE: 1.98 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Route 223 bridge

RIVER MILE: 2.40

LATITUDE: 37.48840 **LONGTITUDE:** -76.31030

DOWNSTREAM LIMIT:

DESCRIPTION: Chesapeake Bay

RIVER MILE: 0.00

LATITUDE: 37.46820 **LONGTITUDE:** -76.26070

Milford Haven and embayments

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
Fish Tissue - Arsenic	Unknown

SUMMARY:

Arsenic in flounder at MAIA station MA97/98-0080

Source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Mathews

STREAM NAME: North River

HYDROLOGIC UNIT: 02080102

SEGMENT ID.: VAP-C04E_NOR02A02 **TMDL MAP ID:** VAP-C04E-24

SEGMENT SIZE: 5.23 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Tidal limit at Burke Mill Stream

RIVER MILE: 1.19

LATITUDE: 37.46480 **LONGTITUDE:** -76.44690

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE: 37.36830 **LONGTITUDE:** -76.38380

Mainstem of North River

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Fish Tissue - PCBs	Unknown

SUMMARY:

PCBs in fish tissue during a 1998 sampling event

Source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Mathews

STREAM NAME: East River

HYDROLOGIC UNIT: 02080102

SEGMENT ID.: VAP-C04E_EST02A00 **TMDL MAP ID:** VAP-C04E-17

SEGMENT SIZE: 2.01 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary (092)

RIVER MILE:

LATITUDE: 37.42910 **LONGTITUDE:** -76.36530

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE: 37.36560 **LONGTITUDE:** -76.34500

Mainstem of East River downstream of VDH-DSS SFC 92

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
Fish Tissue - PCBs, Arsenic	Unknown

SUMMARY:

PCBs and arsenic in fish tissue during a 1998 sampling event

Source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Gloucester

STREAM NAME: Mobjack Bay

HYDROLOGIC UNIT: 02080102

SEGMENT ID.: VAP-C04E_MJB02A02 **TMDL MAP ID:** VAP-C04E-23

SEGMENT SIZE: 157.98 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Tidal limit at Burke Mill Stream

RIVER MILE:

LATITUDE: 37.46480 **LONGTITUDE:** -76.44690

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth at Chesapeake Bay

RIVER MILE:

LATITUDE: 37.28530 **LONGTITUDE:** -76.30970

The polyhaline segment for Mobjack Bay and its tidal tributaries. Includes Back River, Poquoson River, the mouth of the York River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Benthics	Unknown

SUMMARY:

Random B-IBI violation rate of 5/14 at stations:
03Y01
03Y02
04M05
04M07
04M09
05M08
06R09
06R10
06R11
06R14
07M06
07M08
07M09
07M11

Source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Mathews

STREAM NAME: Milford Haven: Edwards Creek

HYDROLOGIC UNIT: 02080102

SEGMENT ID.: VAP-C04E_EDW02A98 **TMDL MAP ID:** VAP-C04E-04

SEGMENT SIZE: 0.05 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE: 0.42

LATITUDE: 37.49610 **LONGTITUDE:** -76.29250

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE: 0.19

LATITUDE: 37.49280 **LONGTITUDE:** -76.29500

Described in VDH Notice and Description of Shellfish Condemnation Number 197B.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
VDH Shellfish Restriction	Unknown

SUMMARY:

VDH-DSS Shellfish Condemnation 197B, 1/21/1997. Seasonal Condemnation.

Source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Gloucester

STREAM NAME: Fox Mill Run

HYDROLOGIC UNIT: 02080102

SEGMENT ID.: VAP-C05R_FOX01A00 **TMDL MAP ID:** VAP-C05R-01

SEGMENT SIZE: 8.31 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE: 7.07

LATITUDE: 37.44810 **LONGTITUDE:** -76.60190

DOWNSTREAM LIMIT:

DESCRIPTION: Tidal limit

RIVER MILE: 2.01

LATITUDE: 37.40360 **LONGTITUDE:** -76.51340

From its headwaters to the limit of tide.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Dissolved Oxygen	Unknown
Fecal Coliform	
Fish Tissue - Mercury	

SUMMARY:

Assessed partially supporting of the Aquatic Life Use because of a dissolved oxygen violation rate of 4/25 at the Route 17 bridge (7-FOX002.49).

Partially supporting of the Swimmable Use based on a fecal coliform violation rate of 4/24 at 7-FOX002.49.

Mercury in fish tissue in 1998 at 7-FOX002.49

Source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Gloucester, Mathews

STREAM NAME: Mobjack Bay

HYDROLOGIC UNIT: 02080102

SEGMENT ID.: VAP-C06E_MJB01A02 **TMDL MAP ID:** VAP-C06E-06

SEGMENT SIZE: 38.42 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Ware Neck Point

RIVER MILE: 8.39

LATITUDE: 37.36930 **LONGTITUDE:** -76.40580

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth at confluence with York River

RIVER MILE: 0.00

LATITUDE: 37.27810 **LONGTITUDE:** -76.30590

The mainstem of Mobjack Bay.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Fish Tissue - Arsenic	Unknown

SUMMARY:

Arsenic in flounder at MAIA stations MA97/98-0067 and MA98-0959

Source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Hampton, Newport News, Poquoson, Cities of

STREAM NAME: All Estuarine in C07E

HYDROLOGIC UNIT: 02080108

SEGMENT ID.: VAT-C07E_BRK01A00,N **TMDL MAP ID:** VAT-C07E-23

SEGMENT SIZE: 38.52 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Segment includes all estuarine waters within watershed C07E..

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION: Segment includes all estuarine waters within watershed C07E..

RIVER MILE:

LATITUDE: **LONGTITUDE:**

Segment includes all estuarine waters within watershed C07E..

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
General Standard (Benthic)	Unknown

SUMMARY:

Estuarine benthic BIBI surveys are the basis to assess this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The BIBI stations assessed for this segment were within the CBP salinity strata MOBPH.
The cause of the reduced benthic diversity is unknown.

The tidal waters within this watershed are connected by the ebb and flood of estuarine waters to the Chesapeake Bay. The watershed receives inputs from storm water runoff associated with the surrounding residential /urban area. The specific source of the decreased benthic populations is currently unknown.

Targeted monitoring is necessary to further delineate the extent of impairment and to characterize its causes and sources.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Newport News, City of

STREAM NAME: Chisman Creek (Lower)

HYDROLOGIC UNIT: 02080108

SEGMENT ID.: VAT-C07E_CHS01A00 **TMDL MAP ID:** VAT-C07E-17

SEGMENT SIZE: 0.01 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** - 2014

UPSTREAM LIMIT:

DESCRIPTION: One-tenth mile upstream of mouth of creek.

RIVER MILE: 0.10

LATITUDE: 37.17390 **LONGTITUDE:** -76.40340

DOWNSTREAM LIMIT:

DESCRIPTION: At mouth of creek.

RIVER MILE: 0.00

LATITUDE: 37.17230 **LONGTITUDE:** -76.40040

Segment begins one-tenth mile upstream of the station at the mouth of the creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
DDT	Unknown

SUMMARY:

Sufficient exceedances of the sediment screening value for DDT was measured at the monitoring station on Brick Kiln Creek (7-BRK000.00) to assess this segment as Threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report.

The cause of the screening value exceedance is unknown.

The Brick Kiln Creek monitoring station is located at the mouth of Brick Kiln Creek, City of Hampton. The watershed receives inputs from storm water runoff associated with the surrounding residential /urban area. The specific source of the sediment DDT contamination is currently unknown. This watershed is ranked high priority for potential NPS pollution by DCR.

Targeted monitoring is necessary to further delineate the extent of contamination and to characterize its causes and sources.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: York

STREAM NAME: Poquoson River (Middle)

HYDROLOGIC UNIT: 02080108

SEGMENT ID.: VAT-C07E_POQ02A00 **TMDL MAP ID:** VAT-C07E-05

SEGMENT SIZE: 0.03 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Two-tenth mile upstream of station

RIVER MILE: 5.92

LATITUDE: 37.13333 **LONGTITUDE:** -76.43333

DOWNSTREAM LIMIT:

DESCRIPTION: Two-tenth mile downstream station

RIVER MILE: 5.52

LATITUDE: 37.13333 **LONGTITUDE:** -76.33333

Segment begins two-tenth mile upstream of monitoring station and extends two-tenth mile downstream o

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Copper	Unknown

SUMMARY:

There is insufficient monitoring data for sediment toxics recorded at DEQ's ambient water quality monitoring stations to assess this segment for the Clean Water Act's Aquatic Life Use Support Goal. Data collected for the toxic metals indicated exceeded the screening values. Best Professional Judgement is used to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. Additional monitoring for confirmatory data will be implemented to allow definitive assessment of the presence or absence of impairment.

The cause of the elevated copper metal concentration is currently unknown.

The land use in the watershed is primarily residential. The watershed potentially receives inputs from wetlands areas, residential sewage treatment systems, and storm water runoff associated with the surrounding residential area/urban area. The specific source of the elevated toxic metals concentration is currently unknown.

Additional monitoring is necessary to confirm impairment.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Virginia Beach, City of

STREAM NAME: Eastern Branch Lynnhaven

HYDROLOGIC UNIT: 02080108

SEGMENT ID.: VAT-C08E_EBL01A00 **TMDL MAP ID:** VAT-C08E-02

SEGMENT SIZE: 1.5 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** - 2014

UPSTREAM LIMIT:

DESCRIPTION: One-tenth mile upstream of monitoring station 7-EBL002.54.

RIVER MILE: 2.64

LATITUDE: 36.85320 **LONGTITUDE:** -76.06270

DOWNSTREAM LIMIT:

DESCRIPTION: One-tenth mile downstream of monitoring station 7-EBL002.54.

RIVER MILE: 2.44

LATITUDE: 36.85500 **LONGTITUDE:** -76.06410

Segment begins one-tent mile upstream of Route 58 Bridge crossing Thalia Creek and extends one-half

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Fish Tissue - PCBs, Chlordane	Unknown

SUMMARY:

Sufficient exceedance of fish tissue screening value for PCBs & Chlordane at monitoring station (7-EBL002.54) to assess this segment as threatened of the Clean Water Act's Fish Consumption Use Support Goal for the 2002 305(b) report.

The cause of the elevated fish tissue levels of PCBs & Chlordane is unknown.

The watershed receives inputs from storm water runoff associated with the surrounding residential /urban area. This watershed is ranked high priority for potential NPS pollution by DCR. The specific source of the PCBs is currently unknown.

Targeted monitoring is necessary to further delineate the extent of impairment and to characterize its causes and sources.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Virginia Beach, City of

STREAM NAME: Little Creek Reservoir

HYDROLOGIC UNIT: 02080108

SEGMENT ID.: VAT-C08L_LTR03A00 **TMDL MAP ID:** VAT-C08L-06

SEGMENT SIZE: 1 - Acres

INITIAL LISTING: 2002 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Upstream one-tenth mile from station @ LTR000.50.

RIVER MILE: 0.60

LATITUDE: 36.89990 **LONGTITUDE:** -76.16660

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream one-tenth mile from station @ LTR000.50.

RIVER MILE: 0.40

LATITUDE: 36.90170 **LONGTITUDE:** -76.16740

Segment begins one-tenth mile upstream of mile 0.50 and ends at mile 0.6.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
PAH, Chlordane	Unknown

SUMMARY:

Sufficient exceedance of sediment screening value for Dibenz(ah)anthracene and Total chlordane at CORE monitoring station (7-LTR000.50) to assess this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report.

The cause of the elevated levels of organics in sediment is unknown.

The watershed receives inputs from storm water runoff associated with the surrounding residential /urban area. This watershed is ranked high priority for potential NPS pollution by DCR.

Targeted monitoring is necessary to further delineate the extent of impairment and to characterize its causes and sources.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Virginia Beach, City of

STREAM NAME: Little Creek Reservoir

HYDROLOGIC UNIT: 02080108

SEGMENT ID.: VAT-C08L_LTR04A00 **TMDL MAP ID:** VAT-C08L-07

SEGMENT SIZE: 1 - Acres

INITIAL LISTING: 2002 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Upstream one-tenth mile from station @ LTR000.95.

RIVER MILE: 1.05

LATITUDE: 36.89990 **LONGTITUDE:** -76.16660

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream one-tenth mile from station @ LTR000.95.

RIVER MILE: 0.85

LATITUDE: 36.90170 **LONGTITUDE:** -76.16740

Segment begins one-tenth mile upstream of mile 0.95 and ends at mile 0.85.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Copper	Unknown

SUMMARY:

Sufficient exceedance of sediment screening value for copper at Lake monitoring station (7-LTR000.95) to assess this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report.

The cause of the elevated levels of metals in sediment is unknown.

The watershed receives inputs from storm water runoff associated with the surrounding residential /urban area. This watershed is ranked high priority for potential NPS pollution by DCR.

Targeted monitoring is necessary to further delineate the extent of impairment and to characterize its causes and sources.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Virginia Beach, City of

STREAM NAME: Little Creek Reservoir

HYDROLOGIC UNIT: 02080108

SEGMENT ID.: VAT-C08L_LTR01A00,L **TMDL MAP ID:** VAT-C08L-04

SEGMENT SIZE: 185 - Acres

INITIAL LISTING: 2002 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Lake start at Northampton Blvd.

RIVER MILE: 0.00

LATITUDE: 36.89370 **LONGTITUDE:** -76.16200

DOWNSTREAM LIMIT:

DESCRIPTION: Lake end at Shore Drive.

RIVER MILE: 1.00

LATITUDE: 36.90590 **LONGTITUDE:** -76.16830

Segment includes entirety of Little Creek reservoir.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Chlorophyll_a	Unknown

SUMMARY:

Sufficient exceedance of nutrient screening value for Chlorophyll a at monitoring stations (7-LTR000.04 & 7-LTR000.95) to assess this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report.

The cause of the elevated levels of chlorophyll a is unknown.

The watershed receives inputs from storm water runoff associated with the surrounding residential /urban area. This watershed is ranked high priority for potential NPS pollution by DCR.

Targeted monitoring is necessary to further delineate the extent of impairment and to characterize its causes and sources.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Virginia Beach, City of

STREAM NAME: Lake Lawson

HYDROLOGIC UNIT: 02080108

SEGMENT ID.: VAT-C08L_LAK01A00 **TMDL MAP ID:** VAT-C08L-01

SEGMENT SIZE: 98 - Acres

INITIAL LISTING: 2002 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Lake start near Aragonna Village

RIVER MILE: 2.00

LATITUDE: 36.87220 **LONGTITUDE:** -76.14300

DOWNSTREAM LIMIT:

DESCRIPTION: Lake end at Northampton Blvd.

RIVER MILE: 0.00

LATITUDE: 36.89260 **LONGTITUDE:** -76.16220

Segment begins at Aragona Village extends to Northampton Blvd. Crossing.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Chlorophyll_a	Unknown

SUMMARY:

Sufficient exceedance of nutrient screening value for Chlorophyll a at monitoring station (7-LAK000.34) to assess this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report.

The cause of the elevated levels of chlorophyll a is unknown.

The watershed receives inputs from storm water runoff associated with the surrounding residential /urban area. This watershed is ranked high priority for potential NPS pollution by DCR.

Targeted monitoring is necessary to further delineate the extent of impairment and to characterize its causes and sources.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Virginia Beach, City of

STREAM NAME: Lake Whitehurst

HYDROLOGIC UNIT: 02080108

SEGMENT ID.: VAT-C08L_LAW01A00 **TMDL MAP ID:** VAT-C08L-03

SEGMENT SIZE: 5 - Acres

INITIAL LISTING: 2002 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Upstream one-tenth mile from station @ LAW001.00.

RIVER MILE: 1.10

LATITUDE: 36.90980 **LONGTITUDE:** -76.19940

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream one-tenth mile from station @ LAW001.00.

RIVER MILE: 0.90

LATITUDE: 36.91060 **LONGTITUDE:** -76.19650

Segment begins one-tenth mile upstream of mile 1.0 and ends at mile 0.9.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
Fish Tissue - PCBs	Unknown

SUMMARY:

Sufficient exceedance of fish tissue screening value for PCBs in fish tissue at CORE monitoring station (7-LAW001.00) to assess this segment as threatened of the Clean Water Act's Fish Consumption Use Support Goal for the 2002 305(b) report.

The cause of the elevated levels of PCBs in fish tissue is unknown.

The watershed receives inputs from storm water runoff associated with the surrounding residential /urban area. This watershed is ranked high priority for potential NPS pollution by DCR.

Targeted monitoring is necessary to further delineate the extent of impairment and to characterize its causes and sources.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Virginia Beach, City of

STREAM NAME: Lake Smith (Upper)

HYDROLOGIC UNIT: 02080108

SEGMENT ID.: VAT-C08L_LAS02A00 **TMDL MAP ID:** VAT-C08L-02

SEGMENT SIZE: 74 - Acres

INITIAL LISTING: 2002 **TMDL Schedule:** - 2014

UPSTREAM LIMIT:

DESCRIPTION: Start at lake mile 0.16.

RIVER MILE: 2.00

LATITUDE: 36.87220 **LONGTITUDE:** -76.14300

DOWNSTREAM LIMIT:

DESCRIPTION: End at lake terminus at mile 0.0.

RIVER MILE: 0.00

LATITUDE: 36.89260 **LONGTITUDE:** -76.16220

Segment begins one-tenth mile upstream of station 7-LAS000.06 and ends at mile 0.00.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Dissolved Oxygen	Unknown
Chlorophyll_a	Unknown
Copper	Unknown

SUMMARY:

Sufficient violations of Virginia's water quality standard for Dissolved Oxygen recorded at station 7-LAS000.06 to assess this segment as partially supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The cause of the standard violations is unknown at this time. Sufficient exceedance of nutrient screening value (SV) for Chlorophyll a and sediment SV for Cu at above station to assess this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The cause of the elevated levels of water column chlorophyll a and sediment Cu are unknown.

The watershed receives inputs from storm water runoff associated with the surrounding residential /urban area. This watershed is ranked high priority for potential NPS pollution by DCR.

Targeted monitoring is necessary to further delineate the extent of impairment and to characterize its causes and sources.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Virginia Beach, City of

STREAM NAME: Mount Trashmore Lake

HYDROLOGIC UNIT: 02080108

SEGMENT ID.: VAT-C08L_MTL01A00 **TMDL MAP ID:** VAT-C08L-08

SEGMENT SIZE: 5 - Acres

INITIAL LISTING: 2002 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Upstream one-tenth mile from station @ LAW001.00.

RIVER MILE: 1.10

LATITUDE: 36.82640 **LONGTITUDE:** -76.12950

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream one-tenth mile from station @ LAW001.00.

RIVER MILE: 0.90

LATITUDE: 36.83060 **LONGTITUDE:** -76.11660

Segment begins one-tenth mile upstream of mile 0.20 and ends at mile 0.1.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
Fish Tissue - PCBs	Unknown

SUMMARY:

Sufficient exceedance of fish tissue screening value for PCBs in fish tissue at CORE monitoring station (7-MTL000.20) to assess this segment as threatened of the Clean Water Act's Fish Consumption Use Support Goal for the 2002 305(b) report.

The cause of the elevated levels of PCBs in fish tissue is unknown.

The watershed receives inputs from storm water runoff associated with the surrounding landfill and residential /urban area. This watershed is ranked high priority for potential NPS pollution by DCR.

Targeted monitoring is necessary to further delineate the extent of impairment and to characterize its causes and sources.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Accomack

STREAM NAME: Hunting Creek

HYDROLOGIC UNIT: 02080109

SEGMENT ID.: VAT-C10E_HUN01A00 **TMDL MAP ID:** VAT-C10E-03

SEGMENT SIZE: 0.01 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Three-tenth mile upstream station

RIVER MILE: 2.18

LATITUDE: 37.77420 **LONGTITUDE:** -75.69000

DOWNSTREAM LIMIT:

DESCRIPTION: Three-tenth mile downstream station

RIVER MILE: 1.58

LATITUDE: 37.79270 **LONGTITUDE:** -75.71460

Segment begins three-tenth mile upstream of monitoring station and extends three-tenth mile downstream

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Arsenic	Unknown

SUMMARY:

There is insufficient monitoring data for sediment toxics recorded at DEQ's ambient water quality monitoring stations to assess this segment for the Clean Water Act's Aquatic Life Use Support Goal. Data collected for the toxic metals indicated exceeded the screening values. Best Professional Judgement is used to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 1998 305(b) report. Additional monitoring for confirmatory data will be implemented to allow definitive assessment of the presence or absence of impairment.

The cause of the elevated sediment arsenic metals concentrations is currently unknown.

The Hunting Creek monitoring station (7-HUN001.88) is located in Accomack County. The land use in the watershed is mixed agricultural , forested, and residential. The watershed potentially receives inputs from wetlands areas, residential sewage treatment systems, and storm water runoff associated with the surrounding forested/agricultural/residential area. The specific source of the elevated toxic metals concentration is currently unknown.

Additional monitoring is necessary to confirm impairment.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Accomack

STREAM NAME: Petit Branch

HYDROLOGIC UNIT: 02080110

SEGMENT ID.: VAT-D02R_PET01A00 **TMDL MAP ID:** VAT-D02R-02

SEGMENT SIZE: 1.79 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: 1 mile upstream Route 679 Bridge.

RIVER MILE: 1.79

LATITUDE: 37.85000 **LONGTITUDE:** -75.53333

DOWNSTREAM LIMIT:

DESCRIPTION: Eight-tenths mile downstream Rt 679 Bridge.

RIVER MILE: 0.00

LATITUDE: 37.85000 **LONGTITUDE:** -75.53333

Segment begins 0.99 mile upstream of Route 679 Bridge and extends 0.80 miles downstream.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Phosphorus	Unknown

SUMMARY:

Sufficient exceedances of the nutrient screening value for phosphorus were recorded at the above monitoring station to assess this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The cause of the elevated phosphorus concentrations is currently unknown.

The Petit Branch monitoring station is located at the Route 679 Bridge over Petit Branch. Poor benthic habitat is noted at the benthic monitoring location. Upstream farm land is spray irrigated using effluent from the waste treatment system at Eastern Shore Seafood (VPA01060), a Virginia Pollution Abatement no-discharge permitted facility. The watershed receives sediment inputs from storm water runoff associated with the surrounding residential /agricultural and wetlands areas. There are poultry and cattle production activities in the watershed. The specific source of the suspected benthic impairment and elevated ammonia concentrations is currently unknown.

Additional monitoring is needed.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Northampton

STREAM NAME: Parting Creek

HYDROLOGIC UNIT: 02080110

SEGMENT ID.: VAT-D04E_PRT01A00 **TMDL MAP ID:** VAT-D04E-02

SEGMENT SIZE: 0.04 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Two-tenth mile upstream of station

RIVER MILE: 1.50

LATITUDE: 37.52389 **LONGTITUDE:** -75.79750

DOWNSTREAM LIMIT:

DESCRIPTION: Two-tenth mile downstream station

RIVER MILE: 1.10

LATITUDE: 37.51778 **LONGTITUDE:** -75.80333

Segment begins two-tenth mile upstream of monitoring station and extends two-tenth mile downstream o

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Pyrene	Unknown

SUMMARY:

There is insufficient monitoring data for sediment toxics recorded at DEQ's ambient water quality monitoring stations to assess this segment for the Clean Water Act's Aquatic Life Use Support Goal. Data collected for the toxic metal indicated exceeded the screening value. Best Professional Judgement is used to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. Additional monitoring for confirmatory data will be implemented to allow definitive assessment of the presence or absence of impairment.

The cause of the elevated sediment pyrene concentration is currently unknown.

The seasonal shellfish harvesting restriction is related to marina and boating activity occurring in this segment during warm weather months. The land use in the watershed is mixed agricultural , forested, and residential. The watershed potentially receives inputs from wetlands areas, residential sewage treatment systems, and storm water runoff associated with the surrounding forested/agricultural/residential area. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Contiguous Counties and Cities

STREAM NAME: Chesapeake Bay - North Central

HYDROLOGIC UNIT: 02080101

SEGMENT ID.: VACB_R01-01E **TMDL MAP ID:**

SEGMENT SIZE: 193 - Sq. Mi.

INITIAL LISTING: 1998 - E **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

This segment encompasses Chesapeake Bay mainstem open water from the MD-VA state line southward to North shore of mouth of Rappahannock River. Includes monitoring stations CB5.3, CB5.4, CB5.5.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Desig. Use Std (Benthic)	Nonpoint Sources
Nutrient Enriched Waters designation	Municipal Pointsources
	Stratification

SUMMARY:

This segment is non -supporting for the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report due to dissolved oxygen criteria violations at water quality monitoring stations CB5.3, CB5.4, CB5.5. (1% violations in top layer, 35% violations in bottom layer). The segment is threatened for the Clean Water Act's Aquatic Life Use Support Goal because greater than 10% of probabilistically sited benthic IBI stations exceeded the threshold of 2.0 (19% <= 2.0). The segment is also threatened for the Clean Water Act's Aquatic Life Use Support Goal because it is designated as a Nutrient Enriched Water in State Water Quality Standards.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Contiguous Counties and Cities

STREAM NAME: Chesapeake Bay - Central

HYDROLOGIC UNIT: 02080101

SEGMENT ID.: VACB_R01-02AE **TMDL MAP ID:**

SEGMENT SIZE: 380 - Sq. Mi.

INITIAL LISTING: 1998 - E **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

This segment encompasses Chesapeake Bay mainstem open water from mouth of Rappahannock River to Mobjack Bay. Includes monitoring stations CB6.1, CB6.2, CB6.3, CB7.1, CB7.1S, CB7.2, CB7.2E.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Desig. Use Std (Benthic)	Nonpoint Sources
Nutrient Enriched Waters designation	Municipal Pointsources
	Stratification

SUMMARY:

This segment is partially supporting for the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report due to dissolved oxygen criteria violations at water quality monitoring stations CB6.1, CB6.2, CB6.3, CB7.1, CB7.1S, CB7.2, CB7.2E (1% violations in top layer, 13% violations in bottom layer). The segment is also threatened for the Clean Water Act's Aquatic Life Use Support Goal because greater than 10% of probabilistically sited benthic IBI stations exceeded the threshold of 3.0 (40% <= 3.0). The segment is also threatened for the Clean Water Act's Aquatic Life Use Support Goal because it is designated as a Nutrient Enriched Water in State Water Quality Standards.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Contiguous Counties and Cities

STREAM NAME: Chesapeake Bay - York Mouth

HYDROLOGIC UNIT: 02080101

SEGMENT ID.: VACB_R01-02BE **TMDL MAP ID:**

SEGMENT SIZE: 10 - Sq. Mi.

INITIAL LISTING: 1998 - E **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

This segment encompasses small area at mouth of York River. Includes monitoring station WE4.2.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Desig. Use Std (Benthic)	Nonpoint Sources
Nutrient Enriched Waters designation	Municipal Pointsources
	Stratification

SUMMARY:

This segment is partially supporting for the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report due to being listed by EPA in 1998 as being impaired because of low dissolved oxygen, nutrients and turbidity. The 2002 Assessment of data at station WE4.2 indicates no impairment by Dissolved Oxygen (<10% violations in top layer, <10% violations in bottom layer). The segment is threatened for the Clean Water Act's Aquatic Life Use Support Goal because greater than 10% of probabilistically sited benthic IBI stations exceeded the threshold of 3.0 (71% <= 3.0). The segment is also threatened for the Clean Water Act's Aquatic Life Use Support Goal because it is designated as a Nutrient Enriched Water in State Water Quality Standards.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Contiguous Counties and Cities

STREAM NAME: Chesapeake Bay - North West

HYDROLOGIC UNIT: 02080101

SEGMENT ID.: VACB_R01-03A **TMDL MAP ID:**

SEGMENT SIZE: 163 - Sq. Mi.

INITIAL LISTING: 1998 - E **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

This segment encompasses nearshore water of western Chesapeake Bay from mouth of Great Wicomico River southward to mouth of Piankatank River. Includes monitoring stations CB5.4W, LE3.6, LE3.7

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Desig. Use Std (Benthic)	Nonpoint Sources
Nutrient Enriched Waters designation	Municipal Pointsources
	Stratification

SUMMARY:

This segment is partially supporting for the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report due to being listed by EPA in 1998 as being impaired because of low dissolved oxygen, nutrients, and turbidity. The 2002 Assessment of data at stations CB5.4W, LE3.6, and LE3.7 indicates no impairment by Dissolved Oxygen. (<10% violations in top layer, <10% violations in bottom layer). The segment is also threatened for the Clean Water Act's Aquatic Life Use Support Goal because greater than 25% of probabilistically sited benthic IBI stations exceeded the threshold of 2.0 (60% <= 2.0). The segment is also threatened for the Clean Water Act's Aquatic Life Use Support Goal because it is designated as a Nutrient Enriched Water in State Water Quality Standards.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Contiguous Counties and Cities

STREAM NAME: Chesapeake Bay - Tangier/Pokomoke

HYDROLOGIC UNIT: 02080101

SEGMENT ID.: VACB_R01-03BE **TMDL MAP ID:**

SEGMENT SIZE: 200 - Sq. Mi.

INITIAL LISTING: 1998 - E **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

This segment encompasses waters of Pocomoke Sound and extends slightly into mainstem Chesapeake south of Cod harbor. Includes monitoring stations EE3.4, EE3.5, CB7.1N, CB7.1, CB7.1S, CB7.2, CB7.2E.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Desig. Use Std (Benthic)	Nonpoint Sources
Nutrient Enriched Waters designation	Municipal Pointsources
	Stratification

SUMMARY:

This segment is partially supporting for the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report due to being listed by EPA in 1998 as being impaired because of low dissolved oxygen and nutrients. The 2002 Assessment of data at stations EE3.4, EE3.5, CB7.1N, CB7.1, CB7.1S, CB7.2, and CB7.2E indicates no impairment by Dissolved Oxygen (<10% violations in top layer, <10% violations in bottom layer). The segment is threatened for the Clean Water Act's Aquatic Life Use Support Goal because greater than 10% of probabilistically sited benthic IBI stations exceeded the threshold of 3.0 (60% <= 3.0). The segment is also threatened for the Clean Water Act's Aquatic Life Use Support Goal because it is designated as a Nutrient Enriched Water in State Water Quality Standards.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Contiguous Counties and Cities

STREAM NAME: Chesapeake Bay - Mobjack

HYDROLOGIC UNIT: 02080101

SEGMENT ID.: VACB_R01-03CE **TMDL MAP ID:**

SEGMENT SIZE: 85 - Sq. Mi.

INITIAL LISTING: 1998 - E **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

This segment encompasses nearshore water of western Chesapeake Bay near mouth of York River. Segment includes Mobjack B. and waters off mouths of Poquoson and Back Rivers. Includes monitoring stations WE4.1, WE4.3, WE4.4

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Desig. Use Std (Benthic)	Nonpoint Sources
Nutrient Enriched Waters designation	Municipal Pointsources
	Stratification

SUMMARY:

This segment is partially supporting for the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report due to being listed by EPA in 1998 as being impaired because of low dissolved oxygen and nutrients. The 2002 Assessment of data at stations WE4.1, WE4.3, and WE4.4 indicates no impairment by Dissolved Oxygen. (<10% violations in top layer, <10% violations in bottom layer). The segment is threatened for the Clean Water Act's Aquatic Life Use Support Goal because greater than 10% of probabilistically sited benthic IBI stations exceeded the threshold of 3.0 (60% <= 3.0). The segment is also threatened for the Clean Water Act's Aquatic Life Use Support Goal because it is designated as a Nutrient Enriched Water in State Water Quality Standards.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Contiguous Counties and Cities

STREAM NAME: Chesapeake Bay - South Central

HYDROLOGIC UNIT: 02080101

SEGMENT ID.: VACB_R01-04AE **TMDL MAP ID:**

SEGMENT SIZE: 93.6 - Sq. Mi.

INITIAL LISTING: 1998 - E **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

This segment encompasses Chesapeake Bay mid-channel mainstem open water in polygon drawn by mouth of Mobjack Bay - Mouth of Back River - Cherrystone Inlet - mouth of Mobjack B.. Includes monitoring station CB6.4.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Desig. Use Std (Benthic)	Nonpoint Sources
Nutrient Enriched Waters designation	Municipal Pointsources
	Stratification

SUMMARY:

This segment is partially supporting for the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report due to being listed by EPA in 1998 as being impaired because of low dissolved oxygen and nutrients. The 2002 Assessment of data at station CB6.4 indicates no impairment by Dissolved Oxygen (<10% violations in top layer, <10% violations in bottom layer). The segment is threatened for the Clean Water Act's Aquatic Life Use Support Goal because greater than 10% of probabilistically sited benthic IBI stations exceeded the threshold of 3.0 (36% <= 3.0). The segment is also threatened for the Clean Water Act's Aquatic Life Use Support Goal because it is designated as a Nutrient Enriched Water in State Water Quality Standards.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Contiguous Counties and Cities

STREAM NAME: Chesapeake Bay - Bay Mouth

HYDROLOGIC UNIT: 02080101

SEGMENT ID.: VACB_R01-04BE **TMDL MAP ID:**

SEGMENT SIZE: 53.98 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

This segment encompasses small area of open water at mouth of Chesapeake Bay. Includes monitoring stations CB7.4, CB7.4N.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Fish Tissue - Arsenic	Unknown

SUMMARY:

The segment is threatened for the Clean Water Act's Aquatic Life Use Support Goal because it is designated as a Nutrient Enriched Water in State Water Quality Standards. The 2002 assessment of data at stations CB7.4, CB7.4N indicates no impairment by Dissolved Oxygen. (<10% violations in top layer, <10% violations in bottom layer). The segment is threatened for the Clean Water Act's Fish consumption use because Arsenic in crab and fish at DEQ station 7-CHE-68 exceeding the tissue screening value.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Contiguous Counties and Cities

STREAM NAME: Chesapeake Bay - Off Cape Charles

HYDROLOGIC UNIT: 02080101

SEGMENT ID.: VACB_R01-04CE **TMDL MAP ID:**

SEGMENT SIZE: 0.4 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

This segment is BSS Shellfish condemnation area number 11 (Restricted harvest). Ches. Bay - Opposite Cape Charles. Monitoring data for surrounding segment R01-04FE used for assessment of this segment.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Desig. Use Std (Benthic)	Unknown
Nutrient Enriched Waters designation	Nonpoint Sources
	Stratification

SUMMARY:

VDH-DSS Shellfish Condemnation 11A, 9/1/1993 listed areas as restricted. B-IBI: Threatened ALUS based on segment R01-04FE (26% <= 3.0)

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Contiguous Counties and Cities

STREAM NAME: Chesapeake Bay - S. Thimble Island

HYDROLOGIC UNIT: 02080101

SEGMENT ID.: VACB_R01-04DE **TMDL MAP ID:**

SEGMENT SIZE: 0.02 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

This segment is BSS Shellfish condemnation number 163 (Prohibited Harvest due to STP outfall). South Thimble Island, CB bridge-tunnel. Monitoring data for surrounding segment R01-04BE used for assessment of this segment.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Desig. Use Std (Benthic)	Unknown
Nutrient Enriched Waters designation	

SUMMARY:

VDH-DSS Shellfish Condemnation 163, 11/3/1993 listed areas as prohibited assumed due to STP

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Contiguous Counties and Cities

STREAM NAME: Chesapeake Bay - Off Little Creek A

HYDROLOGIC UNIT: 02080101

SEGMENT ID.: VACB_R01-04EE **TMDL MAP ID:**

SEGMENT SIZE: 1.4 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

This segment is restricted area of BSS Shellfish condemnation area number 60. Ches. Bay - Adjoining Little Creek. Monitoring data for surrounding segment R01-04FE used for assessment of this segment.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Desig. Use Std (Benthic)	Unknown
Nutrient Enriched Waters designation	Nonpoint Sources
	Stratification

SUMMARY:

VDH-DSS Shellfish Condemnation 60, 4/20/1995 listed areas as restricted, surrounds a prohibited area.

B-IBI: Threatened ALUS based on segment R01-04FE (26% <= 3.0).

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Contiguous Counties and Cities

STREAM NAME: Chesapeake Bay - South

HYDROLOGIC UNIT: 02080101

SEGMENT ID.: VACB_R01-04FE **TMDL MAP ID:**

SEGMENT SIZE: 224 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

This segment encompasses Chesapeake Bay mid-channel mainstem open water south of line drawn from Mouth of Back River to Cherrystone Inlet - mouth of Mobjack B.. Includes monitoring station CB7.3, CB7.3E, CB8.1, CB8.1E.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Desig. Use Std (Benthic)	Nonpoint Sources
	Municipal Pointsources
	Stratification

SUMMARY:

The segment is threatened for the Clean Water Act's Aquatic Life Use Support Goal because it is designated as a Nutrient Enriched Water in State Water Quality Standards. The 2002 assessment of data at stations CB7.3, CB7.3E, CB8.1, CB8.1E indicates no impairment by Dissolved Oxygen. (<10% violations in top layer, <10% violations in bottom layer). The segment is threatened for the Clean Water Act's Aquatic Life Use Support Goal because greater than 10% of probabilistically sited benthic IBI stations exceeded the threshold of 3.0 (26% <= 3.0).

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Contiguous Counties and Cities

STREAM NAME: Chesapeake Bay - Off Little Creek B

HYDROLOGIC UNIT: 02080101

SEGMENT ID.: VACB_R01-04GE **TMDL MAP ID:**

SEGMENT SIZE: 0.6 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

This segment is prohibited area of BSS Shellfish condemnation area number 60. Ches. Bay - Adjoining Little Creek. Monitoring data for surrounding segment R01-04FE used for assessment of this segment. Shellfish use removed due to STP discharge.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Desig. Use Std (Benthic)	Unknown
Nutrient Enriched Waters designation	Nonpoint Sources
	Stratification

SUMMARY:

VDH-DSS Shellfish Condemnation 11B, 11/3/1993 listed areas as prohibited assumed due to STP. B-IBI: Threatened ALUS based on segment R01-04FE (26% <= 3.0)

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHESAPEAKE BAY/ATLANTIC/SMALL COASTAL BASINS

CITY/COUNTY: Contiguous Counties and Cities

STREAM NAME: Chesapeake Bay - Off James River

HYDROLOGIC UNIT: 02080101

SEGMENT ID.: VACB_R01-05E **TMDL MAP ID:**

SEGMENT SIZE: 23 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

This segment encompasses small area of open water Bay water off mouth of James River extending north to Back River. Includes monitoring station LE5.5

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Nutrient Enriched Waters designation	Nonpoint Sources
	Municipal Pointsources

SUMMARY:

The segment is threatened for the Clean Water Act's Aquatic Life Use Support Goal because it is designated as a Nutrient Enriched Water in State Water Quality Standards. The 2002 assessment of data at station LE5.5 indicates no impairment by Dissolved Oxygen. (<10% violations in top layer, <10% violations in bottom layer).